RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/090,879
Source: TFW00
Date Processed by STIC: 10/19/2006

ENTERED

IFWO

RAW SEQUENCE LISTING DATE: 10/19/2006
PATENT APPLICATION: **US/10/090,879** TIME: 08:08:35

Input Set : **A:\16163-025002.txt**
Output Set: **N:\CRF4\10192006\J090879.raw**

```
 4 <110> APPLICANT: Somers, William S.
 5       Stahl, Mark
 6       Sullivan, Francis X.
 9 <120> TITLE OF INVENTION: CRYSTAL STRUCTURE OF E. COLI GDP-FUCOSE
10       SYNTHETASE (AND COMPLEXES THEREOF) AND METHODS OF
11       IDENTIFYING AGONISTS AND ANTAGONISTS USING SAME
14 <130> FILE REFERENCE: 16163-025002
16 <140> CURRENT APPLICATION NUMBER: US 10/090,879
17 <141> CURRENT FILING DATE: 2002-03-04
19 <150> PRIOR APPLICATION NUMBER: US 09/373,432
20 <151> PRIOR FILING DATE: 1999-08-13
22 <150> PRIOR APPLICATION NUMBER: US 60/096,452
W--> 23 <151> PRIOR FILING DATE: 08-13-1998
26 <160> NUMBER OF SEQ ID NOS: 3
28 <170> SOFTWARE: FastSEQ for Windows Version 4.0
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 338
32 <212> TYPE: PRT
33 <213> ORGANISM: Escherichia coli
35 <400> SEQUENCE: 1
36 Met Arg Val Leu Val Thr Gly Gly Ser Gly Tyr Ile Gly Ser His Thr
37  1               5                  10                  15
38 Cys Val Gln Leu Leu Gln Asn Gly His Asp Val Ile Ile Leu Asp Asn
39             20                  25                  30
40 Leu Cys Asn Ser Lys Arg Ser Val Leu Pro Val Ile Glu Arg Leu Gly
41         35                  40                  45
42 Gly Lys His Pro Thr Phe Val Glu Gly Asp Ile Arg Asn Glu Ala Leu
43     50                  55                  60
44 Met Thr Glu Ile Leu His Asp His Ala Ile Asp Thr Val Ile His Phe
45 65                  70                  75                  80
46 Ala Gly Leu Lys Ala Val Gly Glu Ser Val Gln Lys Pro Leu Glu Tyr
47                 85                  90                  95
48 Tyr Asp Asn Asn Val Asn Gly Thr Leu Arg Leu Ile Ser Ala Met Arg
49             100                 105                 110
50 Ala Ala Asn Val Arg Asn Tyr Ile Phe Ser Ser Ser Ala Thr Val Tyr
51         115                 120                 125
52 Gly Asp Asn Pro Lys Ile Pro Tyr Val Glu Ser Phe Pro Thr Gly Thr
53     130                 135                 140
54 Pro Gln Ser Pro Tyr Gly Lys Ser Lys Leu Met Val Glu Gln Ile Leu
55 145                 150                 155                 160
56 Thr Asp Leu Gln Lys Ala Gln Pro Asp Gln Ala Ser Ile Ala Leu Leu
57                 165                 170                 175
58 Arg Tyr Phe Asn Pro Val Gly Ala His Pro Ser Gly Asp Met Gly Glu
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59              180                 185                 190
60 Asp Pro Gln Gly Ile Pro Asn Asn Leu Met Pro Tyr Ile Ala Gln Val
61          195                 200                 205
62 Ala Val Gly Arg Arg Asp Leu Ala Ile Phe Gly Asn Asp Tyr Pro Thr
63      210                 215                 220
64 Glu Asp Gly Thr Gly Val Arg Asp Tyr Ile His Val Met Asp Leu Ala
65 225                 230                 235                 240
66 Asp Gly His Val Val Ala Met Glu Lys Leu Ala Asn Lys Pro Gly Val
67                  245                 250                 255
68 His Ile Tyr Asn Leu Gly Ala Gly Val Gly Asn Ser Val Leu Asp Val
69              260                 265                 270
70 Val Asn Ala Phe Ser Lys Ala Cys Gly Lys Pro Val Asn Tyr His Pro
71          275                 280                 285
72 Ala Pro Arg Arg Glu Gly Asp Leu Pro Ala Tyr Trp Ala Asp Ala Ser
73      290                 295                 300
74 Lys Ala Asp Arg Glu Leu Asn Trp Arg Val Thr Arg Thr Leu Asp Glu
75 305                 310                 315                 320
76 Met Ala Gln Asp Thr Trp His Trp Gln Ser Arg His Pro Gln Gly Tyr
77                  325                 330                 335
78 Pro Asp
82 <210> SEQ ID NO: 2
83 <211> LENGTH: 316
84 <212> TYPE: PRT
85 <213> ORGANISM: Escherichia coli
87 <400> SEQUENCE: 2
88 Lys Gln Arg Val Phe Ile Ala Gly His Arg Gly Met Val Gly Ser Ala
89  1               5                  10                  15
90 Ile Arg Arg Gln Leu Glu Gln Arg Gly Asp Val Glu Leu Val Leu Arg
91             20                  25                  30
92 Thr Arg Asp Glu Leu Asn Leu Leu Asp Ser Arg Ala Val His Asp Phe
93          35                  40                  45
94 Phe Ala Ser Glu Arg Ile Asp Gln Val Tyr Leu Ala Ala Ala Lys Val
95      50                  55                  60
96 Gly Gly Ile Val Ala Asn Asn Thr Tyr Pro Ala Asp Phe Ile Tyr Gln
97 65                  70                  75                  80
98 Asn Met Met Ile Glu Ser Asn Ile Ile His Ala Ala His Gln Asn Asp
99                  85                  90                  95
100 Val Asn Lys Leu Leu Phe Leu Gly Ser Ser Cys Ile Tyr Pro Lys Leu
101             100                 105                 110
102 Ala Lys Gln Pro Met Ala Glu Ser Glu Leu Leu Gln Gly Thr Leu Glu
103         115                 120                 125
104 Pro Thr Asn Glu Pro Tyr Ala Ile Ala Lys Ile Ala Gly Ile Lys Leu
105     130                 135                 140
106 Cys Glu Ser Tyr Asn Arg Gln Tyr Gly Arg Asp Tyr Arg Ser Val Met
107 145                 150                 155                 160
108 Pro Thr Asn Leu Tyr Gly Pro His Asp Asn Phe His Pro Ser Asn Ser
109                 165                 170                 175
110 His Val Ile Pro Ala Leu Leu Arg Arg Phe His Glu Ala Thr Ala Gln
111             180                 185                 190
```

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```
112 Asn Ala Pro Asp Val Val Trp Gly Ser Gly Thr Pro Met Arg Glu Phe
113         195                 200                 205
114 Leu His Val Asp Asp Met Ala Ala Ala Ser Ile His Val Met Glu Leu
115     210                 215                 220
116 Ala His Glu Val Trp Leu Glu Asn Thr Gln Pro Met Leu Ser His Ile
117 225                 230                 235                 240
118 Asn Val Gly Thr Gly Val Asp Cys Thr Ile Arg Glu Leu Ala Gln Thr
119                 245                 250                 255
120 Ile Ala Lys Val Val Gly Tyr Lys Gly Arg Val Val Phe Asp Ala Ser
121             260                 265                 270
122 Lys Pro Asp Gly Thr Pro Arg Lys Leu Leu Asp Val Thr Arg Leu His
123         275                 280                 285
124 Gln Leu Gly Trp Tyr His Glu Ile Ser Leu Glu Ala Gly Leu Ala Ser
125     290                 295                 300
126 Thr Tyr Gln Trp Phe Leu Glu Asn Gln Asp Arg Phe
127 305                 310                 315
130 <210> SEQ ID NO: 3
131 <211> LENGTH: 312
132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 3
136 Met Arg Ile Leu Val Thr Gly Gly Ser Gly Leu Val Gly Lys Ala Ile
137  1               5                  10                  15
138 Gln Lys Val Val Ala Asp Gly Ala Gly Leu Pro Gly Glu Asp Trp Val
139             20                  25                  30
140 Phe Val Ser Ser Lys Asp Ala Asp Leu Thr Asp Thr Ala Gln Thr Arg
141         35                  40                  45
142 Ala Leu Pro Glu Lys Val Gln Pro Thr His Val Ile His Leu Ala Ala
143     50                  55                  60
144 Met Val Gly Gly Leu Phe Arg Asn Ile Lys Tyr Asn Leu Asp Phe Trp
145 65                  70                  75                  80
146 Arg Lys Asn Val His Met Asn Asp Asn Val Leu His Ser Ala Phe Glu
147                 85                  90                  95
148 Val Gly Ala Lys Val Val Ser Cys Leu Ser Thr Cys Ile Phe Pro Asp
149             100                 105                 110
150 Lys Thr Thr Tyr Pro Ile Asp Glu Thr Met Ile His Asn Gly Pro Pro
151         115                 120                 125
152 His Asn Ser Asn Phe Gly Tyr Ser Tyr Ala Lys Arg Met Ile Asp Val
153     130                 135                 140
154 Gln Asn Arg Ala Tyr Phe Gln Gln Tyr Gly Cys Thr Phe Thr Ala Val
155 145                 150                 155                 160
156 Ile Pro Thr Asn Val Phe Gly Pro His Asp Asn Phe Asn Ile Glu Asp
157                 165                 170                 175
158 Gly His Val Leu Pro Gly Leu Ile His Lys Val His Leu Ala Lys Ser
159             180                 185                 190
160 Ser Gly Ser Ala Leu Thr Val Trp Gly Thr Gly Asn Arg Arg Gln Phe
161         195                 200                 205
162 Ile Tyr Ser Leu Asp Leu Ala Gln Leu Phe Ile Trp Val Leu Arg Glu
163     210                 215                 220
```

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PATENT APPLICATION: **US/10/090,879** TIME: 08:08:35

Input Set : **A:\16163-025002.txt**
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```
164 Tyr Asn Glu Val Glu Pro Ile Leu Ser Val Gly Glu Glu Asp Glu Val
165 225                 230                 235                 240
166 Ser Ile Lys Glu Ala Ala Glu Ala Val Val Glu Ala Met Asp Phe His
167                 245                 250                 255
168 Gly Glu Val Thr Phe Asp Thr Thr Lys Ser Asp Gly Gln Phe Lys Lys
169             260                 265                 270
170 Thr Ala Ser Asn Ser Lys Leu Arg Thr Tyr Leu Pro Asp Phe Arg Phe
171         275                 280                 285
172 Thr Pro Phe Lys Gln Ala Val Lys Glu Thr Cys Ala Trp Phe Thr Asp
173     290                 295                 300
174 Asn Tyr Glu Trp Gln Ala Arg Lys
175 305                 310
```

VERIFICATION SUMMARY DATE: 10/19/2006
PATENT APPLICATION: **US/10/090,879** TIME: 08:08:36

Input Set : **A:\16163-025002.txt**
Output Set: **N:\CRF4\10192006\J090879.raw**

L:23 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD